

Research Fellow (Experimental Nanophotonics and Free
Electron science)
Nanyang Technological University

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Posted May 7, 2025, set to expire May 6, 2026

Job Title	Research Fellow (Experimental Nanophotonics and Free Electron science)
Department	School of Electrical and Electronic Engineering
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	May 7, 2025
Application Deadline	Open untill filled
Position Start Date	Available Immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Electrical and/or Electronics Engineering - Other
Job Website	https://ntu.wd3.myworkdayjobs.com/Careers/job/NTU-Main-Campus-Singapore/Research-Fellow--Experimental-Nanophotonics-and-Free-Electron-science-_R00020646
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Job Description	

School of Electrical and Electronic Engineering is one of the founding Schools of the Nanyang Technological University. Built on a culture of excellence, the School is renowned for its high academic

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standards and research. With over 3,000 undergraduates students and 2,000 graduate students it is one of the largest EEE schools in the world and ranks 4th in the field of Electrical & Electronic Engineering in the 2025 QS World University Rankings by Subjects.

Today, the School has become one of the world's largest engineering schools that nurtures competent engineers and researchers. Each year, the School graduates over a thousand students who are ready to take on great ambitions and challenges.

For more details, please view: <https://www.ntu.edu.sg/eee>.

We are seeking a Research Fellow (RF) who is highly skilled in and deeply passionate about experiments that combine nanophotonics with free electron science. The RF should have strong background in photonics as well as in the use of electron sources, such as DC and RF electron guns, as well as the design and handling of vacuum chambers. Prior exposure to free-electron-based instrumentation, such as scanning electron microscopes, transmission electron microscopes is also relevant. The role of the RF will focus on the design and implementation of experiments that combine free electron sources with nanophotonics concepts, towards the realization of compact, efficient extreme ultraviolet (EUV) sources for applications including EUV spectroscopy and nanolithography.

Key Responsibilities:

- Design and implementation of experiments involving free electron-driven generation of extreme ultraviolet (EUV) radiation.
- Characterize the EUV properties of nanostructures and using these nanostructures in experiments to demonstrate enhanced EUV emission.
- Lead papers and publish in high-impact journals.
- Present at top-tier international conferences.
- Assist PI in writing grants and supervision of graduate and undergraduate students.
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Provide logistical support pertaining to laboratory operation for the project.

Job Requirements:

- PhD degree in physics, mathematics, engineering or related field
- Strong background in photonics as well as in the use of electron sources, such as DC and RF electron guns, as well as the design and handling of vacuum chambers.
- Prior exposure to free-electron-based instrumentation, such as scanning electron microscopes, transmission electron microscopes is also relevant.
- Working knowledge of electromagnetic simulations
- Good written and oral communication skills
- Competent in teamwork and presenting results in informative visuals
- Interpersonal skill: Ability to work under pressure, Ability to work independently, develop solutions under strict timelines, meticulous and eye for details, excellent organizational / time management skills
- Entry level candidates are welcome to apply

We regret to inform that only shortlisted candidates will be notified.

Contact Information

Please reference Academickeys in your cover letter when

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applying for or inquiring about this job announcement.

Contact

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